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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/713,087	11/17/2003	Kia Silverbrook	ZG177US	9627
24011	7590 07/22/20	4	EXAMINER	
SILVERBROOK RESEARCH PTY LTD 393 DARLING STREET			HUFFMAN	JULIAN D
BALMAIN,			ART UNIT	PAPER NUMBER
AUSTRALIA	L		2853	
			DATE MAILED: 07/22/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/713,087	SILVERBROOK, KIA			
Office Action Summary	Examiner	Art Unit			
	Julian D. Huffman	2853			
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPI THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repi - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing - earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be timply within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on	·				
2a) This action is FINAL . 2b) ⊠ Th	is action is non-final.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) ⊠ Claim(s) <u>1-9</u> is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) □ Claim(s) <u>2 and 5-9</u> is/are rejected. 7) ⊠ Claim(s) <u>1,3 and 4</u> is/are objected to. 8) □ Claim(s) are subject to restriction and/	awn from consideration.	-			
Application Papers					
9) The specification is objected to by the Examination The drawing(s) filed on 17 November 2003 is/ Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction. The oath or declaration is objected to by the Examination is objected.	rare: a)⊠ accepted or b)□ object e drawing(s) be held in abeyance. See ction is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No. 10/129,434. 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary				
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date <u>11/17/03</u>. 	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	atent Application (PTO-152)			

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DETAILED ACTION

Claim Objections

1. Claims 1-9 are objected to because of the following informalities:

In claim 1, a printhead is not recited. Thus there is no antecedent basis for the limitation that the coefficient of thermal expansion of the beam is substantially equal to that of the printheads.

It is suggested that claim 1 be amended to recite "A printing apparatus comprising:

a support structure and a plurality of printheads supported by the support structure;

the support structure comprising an elongated beam...".

Additionally, the preamble of the dependent claims should be amended to recite "the printing apparatus of claim", wherein".

Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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3. Claims 2 and 5-8 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Applicant's original specification states that "The length of each segment is selected such that the printhead spacing, or printhead pitch A, has an effective coefficient of thermal expansion substantially equal to that of silicon".

Applicant's original specification does not support the limitation that "the combined lengths of two adjacent segments define a pitch and the coefficient of thermal expansion across the pitch is substantially equal to that of a printhead carried by the pitch".

The original specification also does not support the beam pitch and printhead pitch being substantially the same.

The new matter should be cancelled from the claims.

Appropriate correction is required.

Allowable Subject Matter

4. Claims 1, 3 and 4 would be allowed if rewritten to overcome the objection outlined above.

The prior art of record does not disclose the support beam formed from two different materials alternating along the length of the beam with a CTE substantially equal to that of the printhead.

Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. U.S. 6,325,488 B1 to Beerling et al. and 6,350,013 B1 to Scheffelin et al.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julian D. Huffman whose telephone number is (571)272-2147. The examiner can generally be reached Monday through Friday from 9:00 a.m. to 5:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier, can be reached at (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

JH

July 19, 2004

P

Thinh Nguyen
Primary Examiner
Primary Examiner
Technology Center 2800